

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	155	(tungsten and (plug via) and grain). clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/13 11:30
L3	759	(257/774).CCLS.	US-PGPUB	OR	OFF	2007/04/13 11:34
S1	2277	(257/774).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/13 11:34
S2	1	("6,291,885").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/18 13:32
S3	13	("20020144889" "4647361" "4927786"  "5229323" "5604158" "5956609" "60 37263").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/20 11:20
S4	5464525	width wide diameter	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/20 12:16
S5	2278	(257/774).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/20 12:16
S6	1570	S5 and S4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/20 12:16
S7	259293	tungsten	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/20 12:16
S8	687	S6 and S7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/20 12:17

## EAST Search History

S9	545124	titanium	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/20 12:17
S10	448	S8 and S9	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/20 12:26
S11	787183	plug	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/20 12:26
S12	243	S10 and S11	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/20 13:54
S13	3976	plug same nm	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/20 13:55
S14	209695	("257").CLAS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/20 13:55
S15	2125	S13 and S14	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/20 13:55
S16	259293	tungsten	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/20 13:55
S17	1565	S15 and S16	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/20 13:55

## EAST Search History

S18	545124	titanium	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/20 13:55
S19	1091	S17 and S18	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/20 15:10
S20	122938	angstrom	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/20 15:11
S21	122938	angstrom ".ang."	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/20 15:11
S22	787183	plug	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/20 15:12
S23	8387	S21 and S22	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/20 15:13
S24	4294	S23 and S14	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/20 15:13
S25	2752	S4 and S24	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/20 15:36

## EAST Search History

S26	5440314	tungsten copper cu w	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/20 15:41
S27	2308	S25 and S26	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/20 15:42
S28	998669	tungsten copper	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/20 15:42
S29	2066	S25 and S28	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/20 15:42
S30	2066	S29 and S4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/20 15:45
S31	545124	titanium	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/20 15:47
S32	1433	S30 and S31	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/20 15:52
S33	0	(andstrom ".ang.") same plug	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/20 15:53

## EAST Search History

S34	1497	S21 same S22	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/20 15:54
S35	374	S32 and S34	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/20 16:09
S36	122938	angstrom ".ANG."	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/20 16:09
S37	29166	S14 and S36	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/20 16:09
S38	4294	S37 and plug	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/20 16:09
S39	1225741	titanium copper	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/20 16:09
S40	998669	tungsten copper	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/20 16:10
S41	3152	S38 and S40	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/20 16:10

## EAST Search History

S42	1497	S36 same plug	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/20 16:10
S43	210141	S42 S14	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/20 16:10
S44	1051	S42 and S14	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/20 16:11
S45	800	S44 and S40	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/20 16:11
S46	4	("2003/0075802").URPN.	USPAT	OR	ON	2006/04/24 09:25
S47	1	("20030075802").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/24 09:25
S48	1	("20030075802").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/24 11:01
S49	1	("6696368 ").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/04/24 11:01
S50	21	("20010002071"   "20010030235"   "20010030552"   "20020001908"   "5700716"   "5747116"   "5851680"   "5908947"   "5946594"   "5976976"   "5977636"   "5990021"   "6037252"   "6054191"   "6086442"   "6156638"   "6184135"   "6200649"   "6329670"   "6511900").PN. OR ("6696368"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/24 11:01
S51	2	("3037252").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/04 10:22
S52	1	("6037252").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/04 10:23

## EAST Search History

S53	3795	(decreasing same via same (size diameter))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 15:30
S54	225111	("257").CLAS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 15:30
S55	309	S53 and S54	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/13 15:34
S56	1	("20050023702").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/13 15:34
S57	41464	titanium adj nitride	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/16 09:22
S58	10438	titanium adj nitride with (barrier adhesive)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/16 09:23
S59	5736	S58 same tungsten	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/16 09:24
S60	225111	("257").CLAS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/16 09:24
S61	4628	S59 and S60	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/16 09:24

## EAST Search History

S62	811250	plug	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/16 09:25
S63	1414	S62 same S59	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/16 09:25
S64	1207	S63 and S60	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/16 09:25
S65	1	("2003/0062626").URPN.	USPAT	OR	ON	2006/10/16 09:25
S66	1	("7071563 ").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/16 09:25
S67	21	("20020132473"   "20020144889"   "4647361"   "4851369"   "4927786"   "5229323"   "5600182"   "5604140"   "5604158"   "5672543"   "5847463"   "5956609"   "5981380"   "5985749"   "6022800"   "6037263"   "6087257"   "6144097"   "6194304"   "6372633"   "6375552").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/16 09:26
S68	2	"US 20050023702"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/04/03 09:37
S69	5168	crystal with tungsten	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/03 10:01
S70	380	crystal with tungsten and plug	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/03 10:02



## EAST Search History

S71	67	crystal with tungsten same plug	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/03 10:16
S72	1	("6797608").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/03 10:16
S73	12	("5801098"   "5907188"   "5942799"   "5968333"   "5985762"   "5990008"   "6001415"   "6054382"   "6181012"   "6194310"   "6291332").PN. OR ("6797608").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/03 10:49
S74	22	crystal with "30" with nm same tungsten	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/03 10:56
S75	61	(diameter with crystal with grain) same tungsten	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/03 10:56